

Title (en)

Monolithic microwave transmitter/receiver.

Title (de)

Monolithischer Mikrowellen-Sender/Empfänger.

Title (fr)

Emetteur-récepteur micro-ondes monolithique.

Publication

EP 0296838 A2 19881228 (EN)

Application

EP 88305708 A 19880622

Priority

- US 6752787 A 19870626
- US 8202787 A 19870805

Abstract (en)

Preferred embodiments include a microstrip patch antenna (38) which also acts as the resonator for an oscillator powered by IMPATT diodes (34, 36); this forms a monolithic transmitter (30) for microwave and millimeter wave frequencies. Preferred embodiments include mounting on the end of a waveguide.

IPC 1-7

H03B 9/14

IPC 8 full level

G01S 7/35 (2006.01); **G01S 13/34** (2006.01); **G01S 13/91** (2006.01); **H01P 7/08** (2006.01); **H01Q 13/08** (2006.01); **H01Q 21/06** (2006.01); **H01Q 23/00** (2006.01); **H03B 9/14** (2006.01); **H04B 1/03** (2006.01); **H01L 27/06** (2006.01); **H03B 7/08** (2006.01)

CPC (source: EP US)

G01S 13/91 (2013.01 - EP US); **H03B 9/147** (2013.01 - EP US); **H01L 27/0605** (2013.01 - EP); **H03B 7/08** (2013.01 - EP); **H03B 2009/126** (2013.01 - EP); **H03B 2200/0074** (2013.01 - EP)

Cited by

US5675295A; DE102004029440A1; CN102210060A; EP0868711A4; EP2194652A4; EP0510708A1; US5248947A; EP1014487A1; CN102210059A; NL1000329C2; GB2286291A; GB2286291B; US8890749B2; US6642889B1; CN108666738A; EP3450931A1; WO0025386A1; US6441787B1; US8411613B2; US11099050B2; US11404795B2

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

EP 0296838 A2 19881228; **EP 0296838 A3 19900801**; **EP 0296838 B1 19960327**; DE 3855146 D1 19960502; DE 3855146 T2 19960808; JP H01112827 A 19890501

DOCDB simple family (application)

EP 88305708 A 19880622; DE 3855146 T 19880622; JP 15663488 A 19880624